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JOB DETAIL

Ref. IO1839 - 4/26/2017

Instrumentation & Control Engineer - SCOD-078

Main job	Control system
Department	SCOD / Science & Operations Department
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	06/11/2017
Grade	P3
Direct employment	Required
Purpose	In collaboration with the Access Control and Security Responsible Officer, to perform and monitor activities linked to the design and delivery of the Access Control and Security systems, the qualification as well as the procurement, installation, integration and commissioning of the system. To ensure the interface management with other systems such as buildings, electrical, safety, control system and IT. To prepare and provide required engineering input data to supply and construction Contractors. To provide technical support by reviewing and accepting Contractors deliverables. To contribute to the effective integration and site acceptance testing of the Access Control and Security systems. Background information: The Access Control and Security system is composed by the security subsystems, the public address subsystem, the emergency buttons subsystem, the sirens and stroboscopic lights alarm subsystem, and the emergency phone subsystem. Some of the subsystems are subject to licensing by the French nuclear safety authority (ASN) and shall comply with the international nuclear standards (IEC61513 and associated standards). The security subsystems are subject to French Order of 10 June 2011 on the physical protection of facilities housing nuclear materials for which possession requires authorization
Main duties / Responsibilities	-Keeps up-to-date the Master File of Access Control and Security components, which is used for releasing the data needed by the Contractors in charge of the design, acceptance and installation of the Access Control and Security system; -Delivers Cost Estimations for their scope of work; -Delivers Bills of Materials and Bills of Quantities, with different granularity levels; -Delivers Fire Loads estimations, Key plans specifications and provides input for Technical Specifications; -Delivers the documents for creating the 2D and 3D diagrams required for Construction; -Delivers the documentation needed for field deployment of Access Control and Security equipment; -Keeps the interface documents updated and recorded according to the Management Quality Program; -Takes parts in Design Reviews and Integration meetings reviewing deliverables, alerting on technical issues and proposing solutions; -Takes part in definition and execution of site acceptance tests, reviewing deliverables, performing surveillance tasks, alerting on technical issues and managing deviations; -Supports proper monitoring of procurement and follow-up of contracts, issuing and maintaining regular reports, preventing claims and solving issues; -Creates, reviews and/or updates proposals of defense schemes for buildings, which are submitted to the IO Security Officer for approval; -May be required to work outside normal working hours, including nights, weekends and public holidays; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties upon management request; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Security culture, ITER values and ethics; -Reports to the Plant Control and Instrumentation Section Leader;
Measures of effectiveness	-Collaborates with the ITER Safety Department in order to ensure that the security and safety requirements are

correctly implemented;
-Interacts frequently with the Building Infrastructure and Power Supply Project Team, Safety Department and Construction Department; ,
-In response to requests from the Director-General and/or Director of Science and Operations, or proactively, informs the DG/ Director of Science and Operations of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives;

-Conducts properly the design of the initial cabling to be instructed to Construction Department, respecting ITER IO design rules, and in compliance with safety related I&C standards within the defined schedule;
-Develops efficiently the interfaces between the Access Control and Security system and buildings, electrical, safety, control system and IT;
-Establish efficient working relations with the ITER Security Officer;
-Contributes effectively to the achievement of Access Control and Security objectives, meeting project requirements within the defined schedule;
-Supports supervision of Contractors deliveries and anticipates problems;
-Keeps the relevant documentation up-to-date.

Project Construction Phase
SAP Id: 50000791

Level of study	Master or equivalent degree
Diploma	Engineering, security, control systems, electronic
Level of experience	At least 8 years
Technical experience/knowledge	-At least 8 years of practical experience in electronic engineering including: cabling design, cabling implementation, testing and commissioning; writing specifications; the use of 2D and 3D diagrams; electronics integration to electro-mechanic machines; -Relevant experience in the design of Security countermeasures; -Practical experience in conducting integration, acceptance and commissioning of fields sensors/actuators, security and Instrumentation & Control systems. -Extensive practical experience in similar jobs (involving similar work responsibilities). Academic experience or training may be considered a reasonable substitute for the required educational degree but will not be automatically taken as equivalent of practical experience.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Ability to communicate effectively
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Excellent computer and IT skills are mandatory.
Languages	English (Fluent)

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